ABSTRACT

A distributed and transparent debugging environment is provided where, in order to debug a distributed system bridging over plural computers, settings or execution statuses which are respectively managed by debuggers operating on the computers are shared among the debuggers. The controller 101 and the executor 102, each which accepts operations from a user, are disposed on each of plural computers. Each of the controller 101 and the executor 102 has a setting-status manager 104 for managing the setting of a debugger and an execution-status manager 105 for managing the execution status of a debugger. In response to a status change, each of the controller 101 and the executor 102 notifies other computers of the content of the change via the network 130, thus sharing the status. The process manager 110 manages a debug object program according to the content of setting and sets a operation status change due to detection of a break point to the execution-status manager 105. Meanwhile, the process manager 110 changes its operation in response to a change in execution status sent from another computer.